

## Contributors to This Issue

**Václav E. Beneš**, A.B., 1950, Harvard College; M.A. and Ph.D., 1953, Princeton University; Bell Laboratories, 1953—. Mr. Beneš has pursued mathematical research on traffic theory, stochastic processes, frequency modulation, combinatorics, servomechanisms, and stochastic control. In 1959–60, he was visiting lecturer in mathematics at Dartmouth College. In 1971, he taught stochastic processes at SUNY Buffalo, and from 1971–72, he was Visiting MacKay Lecturer in electrical engineering at the University of California in Berkeley. He is the author of two books in his field. Member, American Mathematical Society, Association for Symbolic Logic, Institute of Mathematical Statistics, SIAM, Mathematical Association of America, Mind Association, IEEE.

**William E. Bracker**, B.A. (Applied Physics and Information Science), University of California (San Diego); M.S. (Computer Science), Purdue University; Bell Laboratories, 1972—. Mr. Bracker has worked on the development of store-and-forward message systems, communications processors, and data communications. He is currently teaching as Visiting Professor of Electrical Engineering at the Tuskegee Institute.

**Richard W. Dixon**, A.B. 1958, Harvard College; M.A., 1960, and Ph.D., 1964, Harvard University; Bell Laboratories, 1965—. Mr. Dixon was initially concerned with the interaction of light and elastic waves in solids and liquids and with the development of acoustic light modulators. From 1968 to 1972, he supervised a group responsible for developing semiconductor light-emitting-diode devices. Since 1972, he has been a supervisor in the Gallium Arsenide Laser Department with responsibility for device aspects of gallium arsenide communications laser development. Member, American Physical Society, American Association for the Advancement of Science; Senior Member, IEEE.

**D. Gloge**, Dipl. Ing., 1961, Dr. Ing., 1964, Technical University of Braunschweig, Germany; Bell Laboratories, 1965—. Mr. Gloge is Research Head, Optical Systems Department. He has worked

on the design and testing of various optical transmission media. He is presently engaged in systems studies related to optical fiber telecommunications.

**Douglas W. Hill**, B.S., 1964, California Institute of Technology; M.S. (E.E.), 1965, Stanford University; Ph.D. (Mathematics), 1973, University of New Mexico; U. S. Air Force, 1965-1969; Bell Laboratories 1973—. Mr. Hill has worked on methods for evaluating the statistical accuracy of traffic-engineering procedures. He is currently developing new methods for trunk network administration. Member, SIAM, IMS, IEEE.

**Roy Stephen Krupp**, S.B., (Mathematics, Physics), 1960, Massachusetts Institute of Technology; M.I.T. Aerophysics Laboratory, 1960-65; S.M., 1967 and Ph.D., 1970 (Aeronautics and Astronautics), Massachusetts Institute of Technology; Bell Laboratories, 1970—. A member of the Toll Switching Systems Studies Department, Mr. Krupp has worked at modeling the toll network and on studies of time-division switching networks. His general interests include combinatorics, fluid mechanics, and various branches of applied mathematics.

**Paul M. Lapsa**, B.S. (EE), 1968, Carnegie-Mellon University; M.S. (EE), 1972, University of Minnesota; Detroit Edison Company, 1968-1970; Bell Laboratories, 1972—. Mr. Lapsa has been engaged in fundamental electromagnetic interference studies and is currently working on topics in loop transmission objectives for the Customer Services Studies Group. Member, Tau Beta Pi.

**Dietrich Marcuse**, Diplom Vorpruefung, 1952, Dipl. Phys., 1954, Berlin Free University; D.E.E., 1962, Technische Hochschule, Karlsruhe, Germany; Siemens and Halske (Germany), 1954-1957; Bell Laboratories, 1957—. At Siemens and Halske, Mr. Marcuse was engaged in transmission research and studying coaxial cable and circular waveguide transmission. At Bell Laboratories, he has been engaged in studies of circular electric waveguides and work on gaseous masers. He spent one year (1966-1967) on leave of absence from Bell Laboratories at the University of Utah. He is presently working on the transmission aspect of a light communications system. Mr. Marcuse is the author of three books. Fellow, IEEE; member, Optical Society of America.

**Calvin M. Miller**, BSEE, 1963, North Carolina State University; MSE, 1966, Akron University; Bell Laboratories, 1967—. Mr. Miller has developed equipment and methods for transmission line characterization. His present interests are in the area of fiber optics as a practical transmission medium. Member, Eta Kappa Nu, OSA.

**Scotty R. Neal**, B.A. (Mathematics), 1961, M.A. (Mathematics), 1963, and Ph.D. (Mathematics), 1965, University of California, Riverside; Research Mathematician, Naval Weapons Center, China Lake, California, 1964–1967; Bell Laboratories 1967—. Since coming to Bell Laboratories, Mr. Neal has been primarily concerned with the analysis of various aspects of telephone traffic systems. He has also worked on applications of optimal linear estimation theory and aspects of communication theory. Member, American Mathematical Society.

**S. D. Personick**, B.E.E., 1967, City College of New York; S. M., 1968, E.E., 1969, and Sc.D., 1969, Massachusetts Institute of Technology; Bell Laboratories, 1967—. Mr. Personick is engaged in studies of optical communications systems. He is currently supervisor of the fiberguide systems characterization group.

**Edward R. Sears**, B.S. (Mathematics), 1958, Saint Peter's College; M.S. (Computer Science), 1969, Stevens Institute of Technology; Bell Laboratories, 1965—. Mr. Sears has worked on the design and development of support software for the SAFEGUARD Meek Test System. He is currently engaged in communications software design, development, and maintenance for the BISCOM project.

